

What is claimed is:

1 1. A truck mounted rotating broom system comprising:
2 a rotating broom mounting and control assembly;
3 a support structure mounted to the truck; and
4 a non-rigid connection therebetween.

1 2. The truck mounted rotating broom system as defined in claim 1 wherein
2 said support structure includes:
3 a substantially stationary gooseneck assembly; and
4 a swinging trunnion assembly rotatably connected to said substantially
5 stationary gooseneck assembly.

6 3. The truck mounted rotating broom system as defined in claim 1 wherein
7 said non-rigid connection includes a floating beam and a four bar connection between
8 said swinging trunnion assembly and said floating beam.

1 4. A truck mounted rotating broom system comprising:
2 a support structure including:
3 a substantially stationary gooseneck assembly constructed and
4 arranged to mount to the front of the truck; and
5 a swinging trunnion assembly constructed and arranged for
6 rotatable connection to said substantially stationary gooseneck assembly;
7 means for controlling the position of said swinging trunnion assembly
8 with respect to said gooseneck assembly;
9 a non-rigid connection including a floating beam assembly; and
10 a broom positioning, supporting, and rotating assembly connected to said
11 floating beam assembly.

1 5. The system as defined in claim 1 wherein said non-rigid connection
2 includes a multiple link attachment mechanism.

1 6. The mounting assembly as defined in claim 1 wherein said rotating
2 mounting and control assembly includes:

3 a substantially horizontal beam including a left portion, a right portion,
4 and a central portion;

5 a first caster assembly constructed and arranged for mounting to said left
6 portion of said substantially horizontal beam;

7 a second caster assembly constructed and arranged for mounting to said
8 right portion of said substantially horizontal beam;

9 a first pivot arm assembly connected to the left end of said substantially
10 horizontal beam;

11 a second pivot arm assembly connected to the right end of said
12 substantially horizontal beam;

13 means for mounting said non-rigid connection to said substantially
14 horizontal beam; and

15 means for providing rotational power to the rotating broom.

- 1 7. A system for removing snow from a paved surface, comprising:
- 2 a truck;
- 3 a rotating broom system mounted to the front of said truck;
- 4 said rotating broom system including:
 - 5 a positioning, supporting, and rotating assembly for a rotating
 - 6 broom;
 - 7 a support structure mounted to said truck; and
 - 8 a non-rigid connection between said positioning, supporting, and
 - 9 rotating assembly and said support structure.